

11/10/16 "Quality is not an act, it is a habit" -Aristotle

HW: Rest up, Monday it gets real!

AIM: How do we use the calculator to evaluate derivatives?

Warm Up:

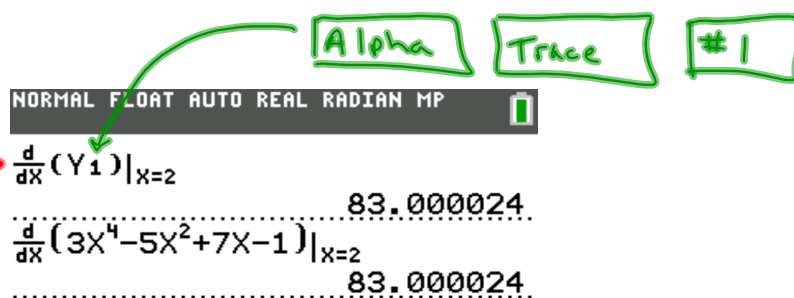
1) Given $f(x) = 3x^4 - 5x^2 + 7x - 1$
find $f'(2)$

$$f'(x) = 12x^3 - 10x + 7$$

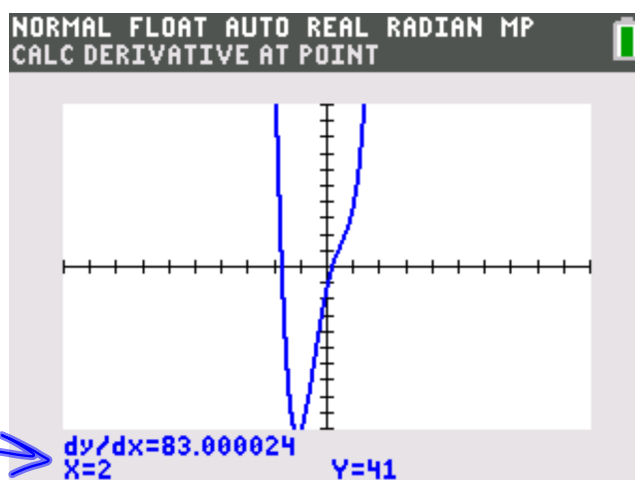
$$f'(2) = 12(2)^3 - 10(2) + 7$$

$$f'(2) = 83$$

Math
#8



2nd Trace
6



2) Find an equation of the tangent to $y = -x^2 + x + 5$ @ $x = 2$

Point
(2,3)

Slope = -3

$$y - 3 = -3(x - 2)$$